Industrial Pretreatment Program Annual Report

July 2020 - June 2021



NPDES Permit Number MA0102598

Serving the towns of Franklin, Medway, Millis, Bellingham, Norfolk, Wrentham, Dover, and Sherborn

66 Village Street Medway, MA 02053

- EPA Region 1 Annual Pretreatment Report Summary Sheet
- Significant Industrial Users
- Industrial User List
- Description of Permitting Process and Activity
- Permits Issued
- Industrial Pretreatment Program Funding and Changes
- Summary of Inspections
- Inspection and Sampling
- Industrial Users Parameter Violation Report
- List of Significantly Violating Industries Required to be Published in a Local Paper
- Pollutant Analytical Results for Raw, Primary Effluent, Secondary Effluent, Final Effluent, Septage, and Sludge
- Copper Data, Bioassay Data, Water Quality Analysis Summary, and Inhibitory Threshold Concentrations
- Description of all Interference and Pass-Through that Occurred During the Past Year
- Description of all Investigations into Interference and Pass-Through During the Previous Year
- Description of Monitoring, Sewer Inspections and Evaluations to Detect Interference and Pass-Through
- Actions Taken to Reduce the Incidence of Significant Violations by Significant Industrial Users
- Local Limits with Date of the Latest Adoption

EPA Region 1 Annual Pretreatment Report Summary Sheet December 2007

POTW Name:	Charles River Pollution	1 Control District	
NPDES Permit #:	MA0102598		
Pretreatment Rep	ort Period Start Date:	July 1, 2020	
Pretreatment Rep	ort Period End Date:	June 30, 2021	
	ndustrial Users (SIUs): at Control Mechanisms:	0	
# of SIUs not Insp	pected:	0	
# of SIUs not San	npled:	0	
# of SIUs in Sign: with Pretreatment	ificant Noncompliance (Standards:	SNC) 0	
# of SIUs in SNC Requirements:	with Reporting	0	
# of SIUs in SNC Compliance Sche	with Pretreatment dule:	0	
# of SIUs in SNC	Published in Newspape	er: 0	
# of SIUs with Co	ompliance Schedules:	0	
# of Violation No	tices Issued to SIUs:	3	
# of Administrativ	ve Orders Issued to SIUs	s: 0	
# of Civil Suits Fi	lled Against SIUs:	0	
# of Criminal Suit	ts Filed Against SIUs:	0	
# of Categorical I	ndustrial Users (CIUs):	2	
# of CIUs in SNC	:	0	

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Total Dollar Amount of Penalties Collected

\$ 0.00

of IUs from which Penalties have been collected:

0

Local Limits

Date of Most Recent Technical Evaluation of Local Limits:

January 15, 2020

Date of Most Recent Adoption of Technically Based Local Limits:

March 12, 2020

Pollutant	Limit (mg/l)	MAHL (lb/day)
Cyanide	0.23	1.17
Arsenic	1.02	4.75
Cadmium	0.06	0.32
Chromium	3.48	16.28
Copper	1.05	9.14
Lead	0.08	0.50
Mercury	0.03	0.13
Nickel	0.79	4.07
Selenium	0.14	0.70
Silver	0.35	1.63
Zinc	1.32	10.87
Oil & Grease	150	NA*
PH	5-12 s.u.	NA

Parameter	Daily Limit (lb/day)	Max Monthly (lb/day)	MAHL Daily Limits (lb/day)	MAHL Monthly (lb/day)
Biological Oxygen Demand (BOD)	3,148	761	16,517	13,533
Total Suspended Solids (TSS)	5,473	1,287	20,040	14,807
Total Ammonia – Nitrogen (NH ₃)	564	409	1,733	1,539
Total Phosphorus (TP)	278	229	587	526

SIGNIFICANT INDUSTRIAL USERS

American National Power **Bellingham Energy Company** 155 Maple Street, Bellingham, MA 02019

Status: Active

Permit Number: 01-01LF

Permit Effective Date: July 1, 2021 Permit Expiration Date: June 30, 2023

Flow:

25,000 gpd

Category:

American National Power, Bellingham Energy Company, a combined-cycle electric generating facility, is a categorical SIU covered under 40 CFR 423

(Steam electric power generating point source category).

Specifically, American National Power, Bellingham Energy Company is required to comply with 40 CFR 423.17 (Pretreatment standards for new sources). Batch discharges of chemical metal cleaning waste are limited to

1.0 mg/L of copper.

Process:

580 MW natural gas fired, turbine combined-cycle, electric generating

facility.

Garelick Farms GTL-LLC

1199 West Central Street, Franklin, MA 02038

Status: Active

Permit Number: 01-02LF

Permit Effective Date: January 1, 2020 Permit Expiration Date: December 31, 2021

Flow:

450,000 gpd

Category:

Garelick Farms, Inc. contributes over 25,000 gallons per day and at least five percent of the District's total load of BOD, TSS, total phosphorus, and ammonia nitrogen. Therefore, Garelick Farms is considered a significant

industrial user.

Process:

Receiving, processing, and filling of liquid milk, water and reconstituted

juices for shipping. Blow molding of HDPE bottles and LDPE caps.

MicroGroup, Inc.

7 Industrial Park Road, Medway, MA 02053

Status: Active

Permit Number: 02-06LF

Permit Effective Date: January 1, 2021 Permit Expiration Date: December 31, 2022

Flow:

3,540 gpd

Category:

Manufacturer of stainless-steel products for medical industry (Metal

Finisher 40 CFR 433 point source category).

Process:

Manufactures medical analytical instrument components and assemblies'

parts to customer. Process includes soap wash, electropolishing, rust and

scaling, passivation and pickling.

Charles River Pollution Control District Industrial Pretreatment Program Industrial User List

Etermit No. Permites Site Address City Type Permit Effective Date Permit Effective Date<			Industria	Industrial User List			
AR Metalizing 24 Forge Park Franklin IU 4/4/2019 5 SF Cold Chain Technologies 300 Beaver Street Franklin IU 5/1/2019 6 SF Cold Chain Technologies 135 Constitution Boulevard Franklin IU 2/1/2019 6 SF Ellen Realty Trust 2 Marc Road Medway IU 2/1/2019 1 SF Ellen Realty Trust 2 Marc Road Medway IU 1/1/2020 1 SF Ellen Realty Trust 2 Marc Road Medway IU 1/1/2020 1 SF Ellen Realty Trust 2 Marc Road Medway IU 1/1/2020 1 SF Ellen Realty Trust 2 Marc Road Medway IU 1/1/2020 1 SF Ellen Realty Trust 2 Marc Road Medway IU 1/1/2020 1 SF Eranklin 10 1/1/2020 1 1/1/2020 1 SF Fresh Box Farms 10 Discovery Way Franklin </th <th>Permit No.</th> <th>Permitee</th> <th>Site Address</th> <th>City</th> <th>Туре</th> <th>Permit Effective Date</th> <th>Permit Expiration Date</th>	Permit No.	Permitee	Site Address	City	Туре	Permit Effective Date	Permit Expiration Date
Chelsea Drum 300 Beaver Street Franklin IU 5/1/2019 SF Cold Chain Technologies 135 Constitution Boulevard Franklin IU 4/4/2019 1 SF E. Central Car Wash 349 East Central Street Franklin IU 4/4/2019 1 SF Ellen Realty Trust 2 Marc Road Medway IU 12/1/2019 1 F Mobil Stration 1503 372 Main Street Franklin IU 12/1/2019 1 SF Franklin 239 Cottage Street Franklin IU 1/1/2020 1 SF Prinnose Franklin 200 West Central Street Millis IU 1/1/2020 1 F Prinnose Millis 24 Jayar Road Medway IU 1/1/2020 1 F Prinnose Millis 24 Jayar Road Medway IU 1/1/2020 1 F Prinnose Millis 24 Jayar Road Medway IU 1/1/2021 1 S Pranklin Medway IU	02-02SF	AR Metallizing	24 Forge Park	Franklin	٦	4/4/2019	3/31/2022
SF Cold Chain Technologies 135 Constitution Boulevard Franklin IU 4/4/2019 SF E. Central Car Wash 349 East Central Street Franklin IU 7/1/2019 6/1/2019 SF Ellen Realty Trust 2 Marc Road Medway IU 1/1/2019 1 SF Ellen Realty Trust 2 Marc Road Millis IU 6/1/2020 1 SF Franklin 250 West Central Street Millis IU 9/1/2020 1 SF Franklin 24 Jayar Road Medway IU 1/1/8/2020 1 Innovative Coatings 24 Jayar Road Medway IU 1/1/2020 1 Innovative Coatings 24 Jayar Road Medway IU 1/1/2020 1 Innovative Coatings 24 Jayar Road Medway IU 1/1/2020 1 Innovative Coatings 24 Jayar Road Medway IU 1/1/2020 1 Innovative Coatings 20 Jayar Road Medway IU 1/1/2021 1<	01-15SF	Chelsea Drum	300 Beaver Street	Franklin	П	5/1/2019	4/30/2022
E. Central Car Wash 349 East Central Street Franklin IU 7/1/2019 SF Ellen Reafty Trust 2 Marc Road Medway IU 12/1/2019 IU 12/1/2019 10 12/1/2019 10 12/1/2019 10 12/1/2019 10 12/1/2019 10 12/1/2019 10 12/1/2019 10 12/1/2019 10 12/1/2020 11 12/1/2020 10 12/1/2020 10 12/1/2020 10 12/1/2020 11 11/8/2020 10 12/1/2020 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/8/2020 10 11/1/2021 10 11/1/2021 10 11/1/2020 10 11/1/2021 <td< td=""><td>2016-04SF</td><td>Cold Chain Technologies</td><td>135 Constitution Boulevard</td><td>Franklin</td><td>=</td><td>4/4/2019</td><td>3/31/2022</td></td<>	2016-04SF	Cold Chain Technologies	135 Constitution Boulevard	Franklin	=	4/4/2019	3/31/2022
SF Ellen Reality Trust 2 Marc Road Medway IU 12/1/2019 F Mobil Station 1503 972 Main Street Millis IU 6/1/2020 1 SF Franklin Paint 259 Cottage Street Franklin IU 9/1/2020 1 SF Franklin Paint 259 Cottage Street Medway IU 9/1/2020 1 SF Franklin Paint 20 Discovery Way Franklin IU 5/1/2019 1 F Fresh Box Farms 725 Main Street Millis IU 2/1/2020 1 SF Tegra Medical 9 Forgs Parkway Franklin IU 2/1/2021 1 SF Tegra Medical 1 15A Main Street Medway IU 5/1/2019 1 SF Tegra Medical 1 20 Main Street Medway IU 5/1/2020 1 SF Medway Block 1 20 Main Street Medway IU 5/1/2019 1 SF New England Treatment 2 East Forge Parkway <t< td=""><td>01-03SF</td><td>E. Central Car Wash</td><td>349 East Central Street</td><td>Franklin</td><td>Ξ</td><td>7/1/2019</td><td>6/30/2022</td></t<>	01-03SF	E. Central Car Wash	349 East Central Street	Franklin	Ξ	7/1/2019	6/30/2022
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Eagle Stainless 10 Discovery Way Franklin IU 3/1/2019 Advance Signing 4 Industrial Park Road Medway IU 11/1/2020 Sparkles Car Wash 1.15A Main Street Medway IU 5/1/2019 Sparkles Car Wash 1.15A Main Street Medway IU 5/1/2019 SF Medway Block 1.20 Main Street Medway IU 5/1/2019 SF Medway Block 1.20 Main Street Medway IU 5/1/2019 SF Medway Block 1.20 Main Street Franklin IU 5/1/2019 SF Newport Corporation 8 East Forge Parkway Franklin IU 7/1/2019 SF New England Treatment 5 Forge Parkway Franklin IU 4/27/2021 SF New England Treatment 5 Forge Parkway Franklin IU 4/27/2021 SF Hartford Enterprises 300 Hartford Avenue Bellingham IU 10/26/2018 SF Karl Storz 1376 West Central Street Franklin IU<	2016-02SF	Tegra Medical	9 Forge Parkway	Franklin	č	2/1/2019	1/31/2022
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SFTegra Medical – 16 Forge16 Forge ParkwayFranklinIU8/13/2020NDEMC Corp (2010-01ND)109 Constitution BlvdFranklinND3/1/2021NDEMC Corp (2010-02ND)110 Constitution BlvdFranklinND3/1/2021EMC Corp (01-11ND)55 Constitution BlvdFranklinND9/1/2017EMC Corp (01-09ND)50 Constitution BlvdFranklinND9/1/2017	2020-05SF	Karl Storz	1376 West Central Street	Franklin	Ξ	5/12/2020	4/30/2023
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EMC Corp (01-09ND) 50 Constitution Blvd Franklin ND 9/1/2017	01-11ND	EMC Corp (01-11ND)	55 Constitution Blvd	Franklin	ND	9/1/2017	8/31/2022
	01-09ND	EMC Corp (01-09ND)	50 Constitution Blvd	Franklin	ND	9/1/2017	8/31/2022

DESCRIPTION OF PERMITTING PROCESS AND ACTIVITY

PERMITTING PROCESS

An application questionnaire is sent to a potential industrial discharger. Sixty (60) days is allotted for an industry to complete and return a signed application. If an industry is discharging process wastewater into a sewer in Franklin, Medway, Millis or Bellingham, the industry is required to include a laboratory analysis (monitoring base line) with its application.

After review of the application, the District conducts an inspection of the industry to verify the information submitted in its application. Industries that discharge process wastewaters into the sewer are classified by the District as either a significant industrial user (SIU) or an industrial user (IU). For administrative purposes only, the District also classifies industries with no process wastewater discharges as non-dischargers.

All significant industrial users are initially issued a draft industrial discharge permit by the District, which undergoes a thirty (30) day public comment period. After public comments are evaluated, these industries are issued a final two (2) year industrial discharge permit. The District charges a \$500 fee for a significant industrial user permit and a \$150 fee for an industrial user permit. The District also issues five (5) year, no fee industrial discharge permits for non-significant industries found to have no industrial discharge.

PERMITTING ACTIVITY

During this reporting period, the District renewed two (2) non-discharge IU's, five (5) IU's and one (1) SIU. The Districted terminated one IU permit.

At this time, the District monitors three (3) Significant Industrial Users and twenty-eight (28) Industrial Users.

PERMITS ISSUED

July 2020 - June 2021

Permit Number	Company Name	Facility Name	Date of Issuance
2014-01SF	Franklin Paint Company	Franklin Paint Company	9/1/2020
02-08SF	Innovative Coatings Inc	Innovative Coatings Inc	11/8/2020
02-07SF	Poblocki Sign Company LLC	Advance Signing LLC	11/1/2020
2018-04SF	Parallel Holdings	New England Treatment Access (NETA)	4/1/2021
2020-08SF	Tegra Medical, LLC	Tegra Medical, LLC	8/13/2020
2010-01ND	EMC Corp	EMC Corp	3/1/2021
2010-02ND	EMC Corp	EMC Corp	3/1/2021
02-09SF	MicroGroup, Inc	Micogroup, Inc	1/1/2021

INDUSTRIAL PRETREATMENT PROGRAM FUNDING AND CHANGES

Funding

For fiscal year 2021, the District's Board of Commissioners approved funding for the industrial pretreatment program's (IPP) operating budget. The following is a breakdown of the IPP funding:

ITEM		FUNDING
IPP Coordinator		\$ 45,000
IPP Computer Software Support		3,000
Legal Services/Consultant Fees		1,500
District Sampling		3,000
Outside Laboratory		5,800
District Laboratory		500
	Total	\$ 58,800

The costs of the Industrial Pretreatment Program are recovered from (1) O&M assessments to the Towns of Franklin, Medway, Millis and Bellingham, (2) Septage disposal fees, and (3) IPP permit fees.

Proposed Changes to IPP Program

The District does not have any outstanding proposed changes to the IPP Program.

SUMMARY OF INSPECTIONS

Significant Industrial Users (SIU's)

ANP Bellingham Energy Co., MicroGroup Inc and Garelick Farms, Inc. were inspected once during the reporting period.

Brief summary of inspection proceedings:

- 1. During initial inspection, meet with representative(s) from industry to review permit application and proposed local and federal categorical limits if applicable.
- 2. Tour manufacturing production lines, pretreatment systems, and chemical storage and inventory areas.
- 3. Review status of any compliance schedules.
- 4. View sampling location(s) and method of flow measurement.
- 5. Determine if spills or accidental discharges can occur to the sewer and whether or not a slug control plan is necessary.
- 6. Review sampling collection/preservation procedures if applicable.
- 7. Review maintenance and operating logs for proper record keeping.
- 8. Inquire about recent or planned changes in manufacturing, pretreatment, etc. which may affect industrial discharge.
- 9. Discuss District's concerns with industry on monitoring data and answer industry questions.

INSPECTION & SAMPLING

July 2020 – June 2021

Industry	INSPECTION DATES	SAMPLING DATES
ANP Bellingham Energy Co.	May 24, 2021	May 24, 2021
MicroGroup, Inc.	June 1, 2021	June 1, 2021
Garelick Farms, Inc.	June 2, 2021	June 1, 2021

SIGNIFICANT INDUSTRIAL USERS LISTED IN LOCAL PAPER

During this reporting period, no Significant Industrial Users were published in a local newspaper in accordance with 40 CFR 403.8 (f) (2) (vii).

POLLUTANT ANALYTICAL RESULTS CHARLES RIVER POLLUTION CONTROL DISTRICT

Treatment Facility Sampling

During the reporting year, the District analyzed the raw wastewater, primary effluent, secondary effluent, final effluent, septage, and sludge for arsenic, cadmium, chromium, copper, cyanide, lead, mercury, nickel, oil & grease, selenium, silver and zinc. The sludge samples were grab samples whereas the septage samples were composite samples.

The following table outlines the sampling frequency for each sampling location:

Sampling/Testing Frequency
Monthly
Quarterly, (copper monthly)

Attached are tables summarizing the results of the raw influent, primary effluent, secondary effluent, final effluent, septage and sludge during the reporting period.

Raw Sampling Results

July 2020 - June 2021

Average	Maximum	Minimum	June 2, 2021	May 5, 2021	April 7, 2021	March 3, 2021	February 3, 2021	January 6, 2021	December 2, 2020	November 4, 2020	October 7, 2020	September 2, 2020	August 5, 2020	July 7, 2020		Date
4.62	5.84	3.24	5.24	5.18	5.26	5.84	4.63	5.83	5.29	3.65	3.24	3.45	3.54	4.27	(mgd)	Flow
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		Arsenic
0.001	0.001	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.001	0.0005		Cadmium
0.005	0.006	0.002	0.0035	0.0026	0.003	0.006	0.006	0.002	0.003	0.006	0.006	0.006	0.006	0.004		Chromium
0.082	0.110	0.060	0.082	0.069	0.074	0.073	0.087	0.063	0.060	0.087	0.10	0.110	0.10	0.076		Copper
0.004	0.005	0.0025	0.005	0.005	0.005	0.0025	0.005	0.0025	0.005	0.0025	0.005	0.005	0.005	0.0025		Cyanide
0.0023	0.005	0.001	0.002	0.0018	0.002	0.002	0.002	0.001	0.001	0.002	0.003	0.003	0.005	0.003	lm mg	Lead
0.00086	0.00760	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.0076	0.00025	0.00025	0.00025	0.00025	mg/L	Мегсшу
0.005	0.008	0.0028	0.0044	0.0028	0.004	0.004	0.004	0.003	0.003	0.004	0.006	0.005	0.006	0.008		Nickel
20	37	9.4	19	17	13	14	37	13	9.4	25	16	33	26	20		Oil & Grease
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		Selenium
0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001		Silver
0.136	0.210	0.082	0.140	0.12	0.098	0.110	0.11	0.093	0.082	0.14	0.16	0.190	0.210	0.180		Zinc

Note: If a result was not detected, a number in bold is shown in the table equivalent to one-half of the test's detection limit. ND: No Data

Primary Effluent Sampling Results

July 2020 - June 2021

Average	Maximum	Minimum	June 2, 2021	May 5, 2021	April 7, 2021	March 3, 2021	February 3, 2021	January 6, 2021	December 2, 2020	November 4, 2020	October 7, 2020	September 2, 2020	August 5, 2020	July 7, 2020		Date
0.001	0.002	0.001		0.001			0.002			0.001			0.001			Arsenic
0.001	0.0005	0.0005		0.0005			0.001			0.0005			0.0005			Cadmium
0.005	0.007	0.004		0.0074			0.004			0.004			0.004			Chromium
0.048	0.080	0.03	0.054	0.080	0.055	0.061	0.043	0.037	0.045	0.041	0.059	0.030	0.035	0.041		Copper
0.004	0.005	0.0025		0.005			0.0025			0.003			0.005			Cyanide
0.001	0.002	0.001		0.0019			0.0005			0.001			0.002		mg/L	Lead
0.00025	0.00025	0.00025		0.00025			0.00025			0.00025			0.00025		/L	Mercury
0.004	0.0059	0.003		0.0059			0.003			0.004			0.005			Nickel
12.0	19	8.4		11			8.4			9.6			19			Oil & Grease
0.001	0.001	0.001		0.001			0.001			0.001			0.001			Selenium
0.001	0.001	0.001		0.001			0.001			0.001			0.001			Silver
0.067	0.100	0.049		0.10			0.049			0.000	2000		0.062			Zinc

Note: If a result was not detected, a number in bold is shown in the table equivalent to one-half of the test's detection limit.

ND: No Data

Secondary Effluent Sampling Results

July 2020 - June 2021

Average	Maximum	Minimum	June 2, 2021	May 5, 2021	April 7, 2021	March 3, 2021	February 3, 2021	January 6, 2021	December 2, 2020	November 4, 2020	October 7, 2020	September 2, 2020	August 5, 2020	July 7, 2020		Date
0.001	0.001	0.001		0.001			0.001			0.001			0.001			Arsenic
0.001	0.0005	0.0005		0.0005			0.0005			0.0005			0.0005			Cadmium
0.001	0.001	0.001		0.001			0.001			0.001	٠		0.001			Chromium
0.007	0.010	0.005	0.006	0.006	0.009	0.009	0.010	0.007	0.006	0.006	0.005	0.007	0.010	ND		Copper
0.004	0.005	0.0025		0.005			0.005			0.003			0.005			Cyanide
0.001	0.001	0.001		0.0005			0.0005			0.0005			0.001		mg/L	Lead
0.00025	0.00025	0.00025		0.00025			0.00025			0.00025			0.00025		L	Mercury
0.005	0.006	0.003		0.0052			0.003			0.005			0.006			Nickel
0.5	0.9	0.25		0.25			0.5			0.9			0.25			Oil & Grease
0.001	0.001	0.001		0.001			0.001			0.001			0.001			Selenium
0.001	0.001	0.001		0.001			0.001			0.001			0.001			Silver
0.023	0.026	0.017		0.022			0.025			0.017			0.026			Zinc

Note: If a result was not detected, a number in bold is shown in the table equivalent to one-half of the test's detection limit. ND: No Data

Final Effluent Sampling Results

July 2020 - June 2021

Average	Maximum	Minimum		June 2, 2021	May 5, 2021	April 7, 2021	March 3, 2021	February 3, 2021	January 6, 2021	December 2, 2020	November 4, 2020	October 7, 2020	September 2, 2020	August 5, 2020	July 7, 2020		Date
0.001	0.001	0.001			0.001			0.001			0.001			0.001			Arsenic
0.0005	0.0005	0.0005			0.0005			0.0005			0.0005			0.0005			Cadmium
0.001	0.001	0.001			0.001			0.001			0.001			0.001			Chromium
0.0067	0.0100	0.0050		0.0058	0.0051	0.0070	0.0070	0.010	0.0060	0.0050	0.005	0.0050	0.008	0.010	0.0060		Copper
0.004	0.005	0.003			0.005			0.005			0.003			0.005			Cyanide
0.001	0.001	0.001			0.0005			0.0005			0.0005			0.001		mg/L	Lead
0.00025	0.00025	0.00025	The same of the sa		0.00025			0.00025			0.00025			0.00025			Mercury
0.005	0.006	0.003	_		0.0056			0.003			0.005			0.006			Nickel
0.66	1.90	0.25			0.25			0.25			1.9			0.25			Oil & Grease
0.001	0.001	0.001			0.001			0.001			0.001			0.001			Selenium
0.001	0.001	0.001			0.001			100.0			100.0			100.0			Silver
0.022	0.025	0.015			0.022			0.025			0.015	201		0.020	2025		Zinc

Note: If a result was not detected, a number in bold is shown in the table equivalent to one-half of the test's detection limit.

ND: No Data

Septage Sampling Results

July 2020 - June 2021

Average	Maximum	Minimum		June 2, 2021	May 5, 2021	April 7, 2021	March 3, 2021	February 3, 2021	January 6, 2021	December 2, 2020	November 4, 2020	October 7, 2020	September 2, 2020	August 5, 2020	July 7, 2020		Date
0.0473	0.0702	0.0211		0.0484	0.0653	0.0424	0.0416	ND	0.0211	0.0702	0.0473	0.0578	0.0477	0.0319	0.0461	(mga)	Volume
0.054	0.1	0.004			0.0035			ND			0.1			0.057			Arsenic
0.042	0.106	0.0024			0.0024			ND			0.106			0.017			Cadmium
0.224	0.565	0.021			0.021			N			0.565			0.086			Chromium
9.23	50.90	1.00		4.0	1.0	5.2	8.40	ND	1.60	3.77	50.90	9.19	2.14	11.4	3.89		Copper
0.020	0.050	0.005			0.005			ND			0.05			0.005			Cyanide
0.740	1.790	0.069			0.069			ND			1.79			0.36		mg/L	Lead
0.0033	0.0078	0.00025			0.0018			ND			0.00025			0.0078			Mercury
0.300	0.74	0.020			0.02			ND			0.739			0.14			Nickel
490	1100	60			60			NB			1100			310		Annual or other designations of the last o	Oil & Grease
0.043	0.100	0.003			0.0031			AB			0.1			0.026			Selenium
0.026	0.043	0.004	The state of the s		0.0038			NB			0.043			0.030			Silver
41.2	107.0	1.3			1.3			ND			107			15.2			Zinc

Note: If a result was not detected, a number in **bold** is shown in the table equivalent to one-half of the test's detection limit. ND: no data due to zero septage discharge on sampling day

Sludge Sampling Results

July 2020 - June 2021

A	Maximum 1.26 0.13	Minimum 1.20 0.12		May 5, 2021 1.20 0.120	February 3, 2021 1.25 0.125	November 4, 2020 1.25 0.125	August 5, 2020 1.26 0.126		Date Arsenic Cadmium
4.42	6.27	1.80		3.61	1.8	6.27	6.0		Chromium
37.5	58.1	17.0		21	17	58.14	54		Copper
3.54	4.83	0.06		4.83	4.65	4.62	0.06		Cyanide
1.61	2.39	1.00		1.0	1.0	2.394	2.04	mg/L	Lead
0.22	0.70	0.05		0.068	0.700	0.047	0.048	·	Mercury
1.34	1.71	0.50		1.46	0.5	1.71	1.68		Nickel
5948	22940	109		109.2	22940	285	456		Oil & Grease
2.47	2.50	2.45		2.45	2.50	2.45	2.46		Selenium
0.49	0.50	0.49		0.49	0.50	0.49	0.50		Silver
50.18	77.52	20.00	The same of the sa	27.6	20	77.5	75.6		Zinc

Note: If a result was not detected, a number in bold is shown in the table equivalent to one-half of the test's detection limit.

WATER QUALITY ANALYSIS SUMMARY

The only metal pollutant in the District's local limits that has NPDES permit limitations is copper. The copper limits in the permit are 0.013 mg/L for a monthly average and 0.023 mg/L for a daily maximum. The District did not exceed its monthly average or daily maximum limit during this reporting period.

The District was in compliance with the biomonitoring toxicity testing for this reporting period.

The final effluent versus the water quality standards showed that the final effluent was below the water quality standards for all parameters except for cadmium which had all four samples above the water quality standards but were all considered non-detect. Samples that were not detected were given a value of one-half of the test's detection limit, because of some of the higher detection limits the average final effluent appears to be higher than the water quality criteria. The District does not think these results with high detection limits are representative of the true final effluent average.

The water quality criteria for copper is based off the Gold Book numbers.

Copper Concentrations in Final Effluent vs. MA NPDES Permit Limits

July 2020 - June 2021

Date	Average Concentration ug/L	NPDES Permit Monthly Average Limit ug/L	Maximum Concentration ug/L	NPDES Permit Daily Maxiumum Limit ug/L
Jul-19	0.006	13	0.006	23
Aug-19	0.010	13	0.010	23
Sep-19	0.008	13	0.008	23
Oct-19	0.005	13	0.005	23
Nov-19	0.005	13	0.005	23
Dec-19	0.005	13	0.005	23
Jan-20	0.006	13	0.006	23
Feb-20	0.010	13	0.010	23
Mar-20	0.007	13	0.007	23
Apr-20	0.007	13	0.007	23
May-20	0.0051	13	0.0051	23
Jun-20	0.0058	13	0.0058	23

Summary of Bioassay Data

July 2020 - June 2021

1	Ceriodaphnia dubia	iia dubia	Pimephales promelas	romelas
Date	7 Day Chronic NOEC	48 Hour Acute LC ₅₀	7 Day Chronic NOEC	48 Hour Acute LC ₅₀
July 2020	100%	>100%	100%	>100%
October 2020	100%	>100%	100%	>100%
January 2021	100%	>100%	%08	>100%
April 2021	100%	>100%	100%	>100%

equivalent deionized water and reagent grade chemicals, deionized water combined with mineral water, or artificial used for Pimephales promelas was either synthetic laboratory water prepared using either Millipore Milli-Q or Note: Dilution water for Ceriodaphnia dubia was the receiving river collected upstream of discharge. Dilution water sea salts mixed with deionized water.

Water Quality Criteria VS. CRPCD Final Effluent

July 2020 - June 2021

Zinc	Silver	Selenium	Nickel	Mercury	Lead	Copper *	Chromium III	Cadmium	Arsenic	Parameter
109.2	2.79	5	48.5	0.77	2.3	8.34	69.2	0.23	150	Water Quality Criteria (ug/L)
22	1.0	1.0	5.0	0.25	1.0	6.7	1.0	0.5	1.0	Final Elliuent (ug/L)

Quality Criteria: 2009 (Office of Science and Technology 4304T) The provided Gold Book numbers have been adjusted for hardness and were obtained from the EPA document titled National Recommended Water

Limits adjusted for a hardness of 92 mg/L as CaCO₃

Note: If a result was not detected, a number in bold is shown in the table equivalent to one-half of the test's detection limit.

*Copper limit for NPDES permit is an average monthly of 13 ug/L and a max daily of 23 ug/L

INTERFERENCE AND PASS-THROUGH ANALYSIS

The raw and primary effluent sampling data for the metal pollutants during the reporting period indicated concentrations that may cause inhibition with the District's nitrification and activated sludge process.

Nitrification Process

The upper range of the raw influent copper concentration was in the lower range of the inhibition threshold level. Twelve (12) of the twelve (12) copper samples were above the lower inhibition threshold level of 0.05 mg/L. Also, the upper range of the raw influent zinc concentration was in the lower range of the inhibition threshold level. Twelve (12) of the twelve (12) zinc samples were above the lower inhibition threshold level of 0.08 mg/L. Although the samples were within the inhibition ranges for copper and zinc they did not seem to cause interference or pass through at the District.

The upper range of the primary effluent copper concentration was in the lower range of the inhibition threshold level. Five (5) of the twelve (12) copper samples were above the lower inhibition threshold level of 0.05 mg/L. Although the samples were within the inhibition ranges for copper it did not seem to cause interference or pass through at the District.

Activated Sludge Process

The raw and primary effluent sampling showed no concentrations above the reported range of activated sludge inhibition levels.

The final effluent sampling data does not indicate pass-through in the activated sludge process. A significant quantity of the metal pollutants was removed in the treatment facility through its primary and activated sludge processes.

Inhibition Threshold Concentrations

July 2020 - June 2021

0.3 to 5	0.08 to 0.5	0.049 - 0.100	0.082 - 0.210	Zinc
1		0.001	0.001	Silver
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.001	0.001	Selenium
1.0 to 2.5	0.25 to 0.5	0.003 - 0.0059	0.0028 - 0.008	Nickel
0.1 to 1	2 4 5 2	0.0025	0.000250076	Mercury
1.0 to 5.0	0.5	0.001 - 0.002	0.001 - 0.005	Lead
0.1 to 5	0.34 to 0.5	0.0025005	0.0025005	Cyanide
1	0.05 to 0.48	0.03 - 0.080	0.06 - 0.110	Copper
1 to 100	0.25 to 1.9	0.004 - 0.007	0.002 - 0.006	Chromium
1 to 10	5.2	0.0005	0.0005 - 0.001	Cadmium
0.1	1.5	0.001 - 0.002	0.001	Arsenic
Reported Range of Activated Sludge Inhibition Levels mg/L*	Reported Range of Nitrification Inhibition Threshold Levels mg/L *	Reported Range of Primary Effluent at CRPCD mg/L	Reported Range of Raw Influent at CRPCD mg/L	Pollutant

^{*} Inhibition thresholds are from Appendix G - Literature Inhibition Values from EPA Local Limits Development Guidance Appendices (EPA 833-R-04-002B, July 2004)

Note: If a result was not detected, a number in bold is equivalent to one-half of the test's detection limit.

INVESTIGATIONS INTO INTERFERENCE AND PASS-THROUGH

No investigations were necessary during this reporting period due to no knowledge of any interference or pass-through events.

MONITORING, SEWER INSPECTIONS AND EVALUATIONS TO DETECT INTERFERENCE AND PASS-THROUGH

The District tested the raw influent, septage, primary effluent, secondary effluent, and final effluent on a quarterly basis for the required IPP parameters to evaluate whether any interference or pass-through was occurring.

ACTIONS TAKEN TO REDUCE THE INCIDENCE OF SIGNIFICANT VIOLATIONS BY SIU's

The District did not have any significant SIU non-compliances for this reporting period.

SUMMARY OF LOCAL LIMITS Effective as of March 12, 2020

Zinc Oil & Grease pH	Selenium Silver	Mercury Nickel	Lead	Chromium	Cadmium	Arsenic	Cyanide	Parameter
1.32 150 5 - 12 s.u.	0.14 0.35	0.03	0.08	3.48	0.06	1.02	0.23	Daily Limit mg/L
	not exceed the total permitted loading for all Industrial Users. Allocations are given to each Industry on an individual basis.	² Total available loading for all Industrial Users. The sum of all allocations	¹ lb/d = pollutant concentration (mg/L) x Flow (MGD) x 8.34 (conversion factor)	Total Phosphorus (TP) ²	Total Ammonia - Nitrogen (NH ₃) ²	Total Suspended Solids (TSS) ²	Biological Oxygen Demand (BOD) ²	Parameter
	ng for all Industrial U lual basis.	trial Users. The sum) x Flow (MGD) x 8.	278	564	5,473	3,148	Daily Limit lb/d¹
	sers. Allocations are	of all allocations	34 (conversion factor)	229	409	1,287	761	Max Monthly lb/d ¹